

Claims

- [c1] 1. A buffer packing apparatus, at least comprising:
a U-shaped column body having:
a bumper plate;
a pair of carrier boards connecting with the bumper plate
and the ends of each carrier board has a pair of first
slots; and
a pair of protruded sections connected to the ends of
each carrier board being coplanar and the protruded
sections extend inward from the ends of the carrier
boards to form a plurality of second slots between them;
a pair of buffering sleeves, each buffering sleeve having:
a first meshing board having a pair of third slots meshing
with the first slot on one end of the carrier board;
a second meshing board having a pair of fourth slots
meshing with the second slots between the protruded
sections and the carrier boards; and
a plurality of connecting board connected to the first
meshing board and the second meshing board.
- [c2] 2. The buffer packing apparatus of claim 1, wherein the
carrier boards are set in a direction perpendicular to the
bump plate.

- [c3] 3. The buffer packing apparatus of claim 1, wherein the corners of each protruded sections close to the two sides of the carrier board have a chamfer and that each connecting board covers the chamfer.
- [c4] 4. The buffer packing apparatus of claim 1, wherein the end of each second meshing board is connected to a support plate located between the connecting boards and the second meshing boards for maintaining a fixed gap between the two.
- [c5] 5. The buffer packing apparatus of claim 1, wherein the ends of the bumper plate in the U-shaped column body has a pair of grooves and the board end located between the third slots of each first meshing board branches out into a first plugging board and a second plugging board.
- [c6] 6. The buffer packing apparatus of claim 5, wherein the first plugging boards are inserted into the grooves and the second plugging boards are bent to attach to the bumper plate.
- [c7] 7. The buffer packing apparatus of claim 1, wherein the bumper plate, the first meshing boards and the carrier boards support are in contact with the sides of a package object when the object is packaged inside the buffer packing apparatus.

- [c8] 8. The buffer packing apparatus of claim 1, wherein material constituting the buffer packing apparatus is selected from a group consisting of chevron paper, board paper and paper-like material.
- [c9] 9. A buffer packing apparatus, at least comprising:
a U-shaped column body having:
a bumper plate with a pair of grooves at each end;
a pair of carrier boards connected in a perpendicular direction to the bumper plate, wherein the ends of each carrier board has a pair of first slots; and
a pair of protruded sections connected to the ends of each carrier board so that each carrier board and corresponding protruded sections are coplanar, wherein the protruded sections extend inwards from the ends of the carrier board to form a plurality of second slots between them, and further the corners of each protruded section close to the two sides of the carrier board are chamfered;
a pair of buffering sleeves, each buffering sleeve having:
a first meshing board having a pair of third slots meshing with the first slot on one end of the carrier board, the board end between the third slots branches out to form a first plugging board and a second plugging board such that the first plugging boards are inserted into the grooves and the second plugging boards are bent to at-

tach to the bumper plate;
a second meshing board connecting with a support plate having a pair of fourth slots meshing with the second slots between the protruded sections and the carrier boards; and
a plurality of connecting board connecting the first meshing board covering the chamfered corners of each protruded section, and furthermore, the support plate on the second meshing board is positioned between the connecting boards and the second meshing boards for maintaining a fixed gap between the two.

[c10] 10. The buffer packing apparatus of claim 9, wherein the bumper plate, the first meshing boards and the carrier boards support are in contact with the sides of a package object when the object is packaged inside the buffer packing apparatus.

[c11] 11. The buffer packing apparatus of claim 9, wherein material constituting the buffer packing apparatus is selected from a group consisting of chevron paper, board paper and paper-like material.